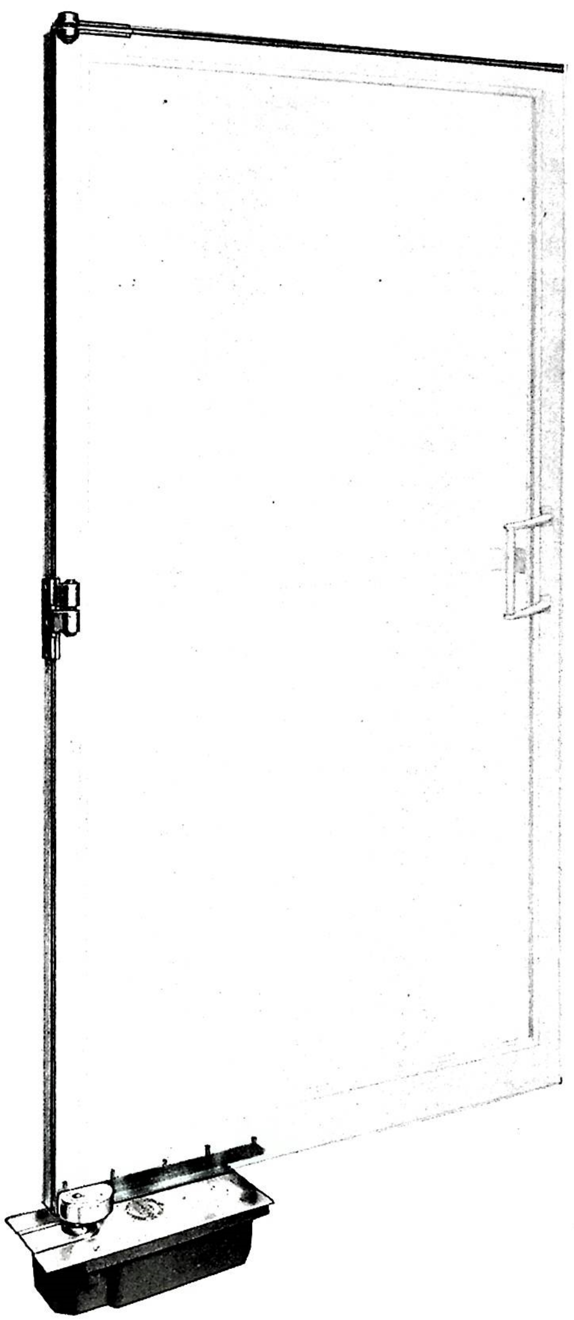
A.I.A. File No. 27-B

18e
Do

DOR-O-MATIC® Concealed in Floor

DOOR CONTROLS manually operated



DOR-O-MATIC FOR EVERY DOOR

Entrance and Vestibule Doors

2′-10″ wide and under
- Single acting—offset pivoted, 200 series
- Single acting—center pivoted, 210 series
- Double acting—center pivoted, 300 series
- Butt hung—S1210 series

over 2′-10″ wide
- Single acting—offset pivoted, 250 series
- Single acting—center pivoted, 260 series
- Double acting—center pivoted, 400 series
- Butt hung—S1260 series

Interior Doors

3′-6″ wide and under
- Single acting—offset pivoted, 200 series
- Single acting—center pivoted, 210 series
- Double acting—center pivoted, 300 series
- Butt hung—S1210 series

over 3′-6″ wide
- Single acting—offset pivoted, 250 series
- Single acting—center pivoted, 260 series
- Double acting—center pivoted, 400 series
- Butt hung—S1260 series

Extra Heavy Doors

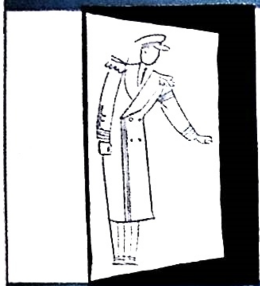
- **lead lined for X-ray rooms**

Single acting—LL250 series

A.I.A. File No. 27-B

DOR-O-MATIC division of REPUBLIC INDUSTRIES, INC.

1959



DOR-O-MATIC®

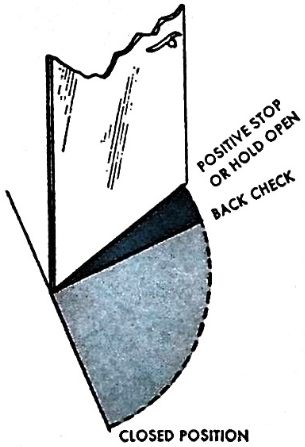
concealed in the floor
DOOR CONTROLS

The Dor-O-Matic Door Control employs the principle of cam action against rollers. All rollers and cams are of hardened and ground steel to insure long life with smooth action. Working parts are engineered to adjust automatically for wear through the entire life of the unit thereby minimizing maintenance and adjustments.

Horizontal compression type springs, working at 75% of rated capacity, virtually eliminate the chance of breakage. The spindle which supports the door operates between two radial and thrust ball bearings, top and bottom, and is sealed at the upper bearing race to eliminate unsightly oil leakage and subsequent staining of the floor. All moving parts are under positive lubrication at all times.

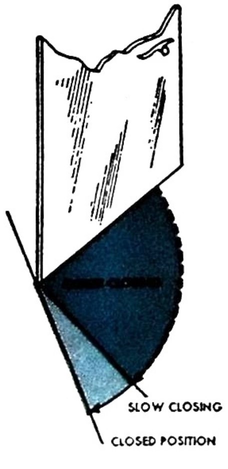
Specify DOR-O-MATIC to Insure User Satisfaction THROUGH THESE OUTSTANDING FEATURES . . .

controls as it opens . . .



Uniform opening control is assured with Dor-O-Matic. The amount of effort required to open the door remains constant through the opening arc until positive stop or hold open back check is reached. Accidental openings from normal winds and drafts are eliminated because the door control is always under tension, so free play and back lash are eliminated. Spring tension is easily adjusted for abnormal conditions.

controls as it closes . . .



An adjustable two speed closing action insures safe but rapid closing of the door without danger of pinching fingers. The initial closing speed brings the door within a few inches of the closed position, at which point the slow speed takes effect to retard the final closing speed of the door . . . and then latches it securely.

action—The double acting, DOR-O-MATIC operates in either direction from center as shown in the diagrams at left. Single acting models work in one direction only. Double acting controls may be used as single acting units by installing a suitable stop.

opening operation—DOR-O-MATIC equipped doors open smoothly, quietly and with a minimum of effort. Positive stop may be obtained at either 90° or 105° as specified. Hold-open may be built into door control mechanism or omitted as specified. Back check starts to operate approximately 15° before positive stop.

positive back stop—Eliminates the need for installing hazardous devices on the floor or door to prevent the door from striking glass partitions, walls or nearby objects.

positive centering—Insures invariable closing to dead center, and prevents opening of door by any normal winds or drafts.

built-in leveling device—Levels the control in the cement case to compensate for irregularities in building and floor construction. It insures perfect and easy installations.

built-in hold open device (optional)—No extra hold-open accessories to buy or install, or clutter up the installation. The result is smarter, cleaner doorways, more convenience, more safety and lower cost.

no accidental hold-open—Back-check action prevents the door from being pushed into the hold-open position without purposeful effort. The required pressure for placing the DOR-O-MATIC control into the hold-open position is approximately 3 times the pressure required to open the door.

simple to adjust—The checking action of the DOR-O-MATIC is factory adjusted for normal operation. Both the first or fast speed and the second or slow speed can be varied in velocity independently to fit unusual requirements.

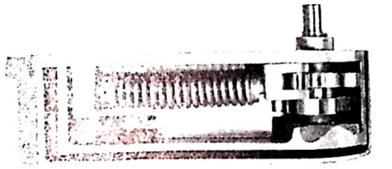
The spring power of the DOR-O-MATIC is factory adjusted to provide the closing power for average installations. Should a change in the setting be desired, the springs can be adjusted easily to any degree of tension with a factory-supplied wrench without removing the door.

SINGLE ACTING DOOR CONTROLS

offset pivoted 200 and 250 series

FEDERAL SPECIFICATION: FF-H-121a, Type 3520A, Sizes II and III

Complete weight of door is carried on spindle which is supported by 9/32" chrome steel ball bearings. The top pivot maintains perfect alignment of the door. Available in all standard finishes.



200 SERIES OFFSET PIVOTED, HANDED for:
entrance and vestibule doors not over 2'10"; interior doors not over 3'6".
Shipping wt. 26 lbs.
Fed. Spec. FF-H121a, Type 3520-A, Size 11, Dor-O-Matic 201.
Cement case size 11¾" x 5 3/16" x 3⅜".

250 SERIES, OFFSET PIVOTED, HANDED for:
entrance and vestibule doors 2'10" to 3'6"; interior doors not over 4'0".
Shipping wt. 34 lbs.
Fed. Spec. FF-H-121a, Type 3520-A, Size III, Dor-O-Matic 251.
Cement case size 12¼" x 6 1/16" x 3¾".

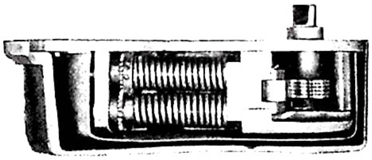
BACK STOP POSITION	HOLD OPEN POSITION	MODEL NUMBER
105°	105°	200
105°	None	201
90°	90°	202
90°	None	203
None*	175°	204
105°	105°	250
105°	None	251
90°	90°	252
90°	None	253

*This model is recommended when lightweight doors must swing back against wall. It has 175° hold open but no positive back stop.

center pivoted 210 and 260 series

FEDERAL SPECIFICATION: FF-H-121a, Type 3520, Size II and III

The door controls and pivots are completely concealed on this type of installation. The 210 Series is frequently used with Twin Cement Cases (illustrated on Page 4) for banks of doors without mullions. Available in all standard finishes.



210 SERIES, CENTER HUNG, HANDED for:
entrance and vestibule doors not over 2'10"; interior doors not over 3'6".
Shipping wt. 27 lbs.
Fed. Spec. FF-H-121a, Type 3520, Size II, Dor-O-Matic 211.
Cement case size 11¾" x 5 3/16" x 3⅜".

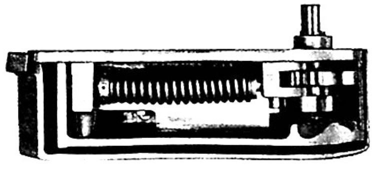
260 SERIES, CENTER HUNG, HANDED for:
entrance and vestibule doors 2'10" to 3'6"; interior doors not over 4'0".
Shipping Wt. 35 lbs.
Fed. Spec. FF-H-121a, Type 3520, Size III, Dor-O-Matic 261.
Cement case size 12¼" x 6 1/16" x 3¾".

BACK STOP POSITION	HOLD OPEN POSITION	MODEL NUMBER
105°	105°	210
105°	None	211
90°	90°	212
90°	None	213
105°	105°	260
105°	None	261
90°	90°	262
90°	None	263

hinged doors S1210 and S1260 series

FEDERAL SPECIFICATION: FF-H-121a, Type 3522, Size II & III

These door controls are designed to permit the use of a floor type closer installation with doors hung on butts and thus eliminate unsightly overhead surface applied closers. The action of the door is controlled by an arm fastened to the spindle. This arm is furnished with a self-lubricating slide block which travels in a rail which is installed in the bottom of the door.



S1210 SERIES, DOORS HUNG ON BUTTS for:
entrance and vestibule doors not over 2'10"; interior doors not over 3'6".
Shipping wt. 30 lbs.
Cement case size 11¾" x 5 3/16" x 3⅜".
Fed. Spec. FF-H-121a, Type 3522, Size II, Dor-O-Matic S1215.

S1260 SERIES, DOORS HUNG ON BUTTS for:
entrance and vestibule doors 2'10" to 3'6"; interior doors not over 4'0".
Shipping wt. 38 lbs.
Fed. Spec. FF-H-121a Type 3522, Size III, Dor-O-Matic S1265.

Maximum Door Opening	Hold Open Position	Model Number
130°*	None	S1215
90°*	None	S1265

*Not available with positive back stop or hold open.

NOTE: Although we will supply door controls for this type of installation, they are not recommended. Arm leverage is poor and excessive pressure is applied to the bottom of door and to door butts. The use of our center pivoted concealed 210 and 260 Series is preferred.

NOTE: ON MODELS WITH 90° HOLD OPEN, BACK CHECKING ACTION STARTS AT APPROXIMATELY 75°.
TWIN CEMENT CASES FOR 200 & 210 SERIES FOR DOORS WITHOUT MULLIONS — See Page 4.

ORDERING INFORMATION

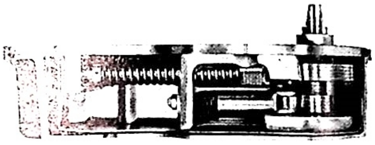
1. Specify Model Number and Hand.
2. Specify whether for use with metal, glass or wood doors. Add letter M, G or W to Model Number. M — Metal, G — Glass, W — Wood.
3. Specify finish.
4. Specify if threshold is to be used. If not Dor-O-Matic advise threshold height when specifying S1215 and S1265 so correct height of spindle may be furnished. See pages 6 and 7 for threshold information.

DOUBLE ACTING DOOR CONTROLS

center pivoted 300 and 400 series

FEDERAL SPECIFICATION FF-H-121a, Type 3510 Sizes I and II

Double acting door controls and pivots are completely concealed. Beauty of the door or entrance is unmarred by hinges or unsightly surface applied door closers or door closer arms. Complete weight of door is supported by the door control. Top pivot insures perfect door alignment. Available in standard finishes.



300 SERIES • CENTER PIVOTED for:
entrance and vestibule doors not over 3'0"; heavy interior doors not over 3'6".
Shipping wt. 37 lbs.
Fed. Spec. FF-H-121a, Type 3510, Size I, Dor-O-Matic 301
Cement case size 14 9/16" x 5⅜" x 3½"

400 SERIES • CENTER PIVOTED for:
entrance and vestibule doors not over 3'0" to 3'6"; extra heavy interior doors not over 4'0".
Shipping wt. 55 lbs.
Fed. Spec. FF-H-121a, Type 3510, Size 11, Dor-O-Matic 401
Cement case size 17" x 6 1/16" x 3 15/16"

BACK STOP POSITION	HOLD OPEN POSITION	MODEL NUMBER
105°	105°	300
105°	None	301
90°	90°	302
90°	None	303
105°	105°	400
105°	None	401
90°	90°	402
90°	None	403

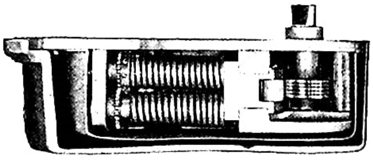
ORDERING INFORMATION

1. Specify Model Number
2. Specify whether for use with metal, glass or wood door. Add lettter M, G or W to Model Number.
   M — Metal, G — Glass, W — Wood.
3. Specify finish
4. Specify if threshold is to be used.
   (See page 6 and 7 for threshold information.)

HEAVY DUTY • SINGLE ACTING DOOR CONTROLS

LL250 series for lead lined X-ray room doors

FEDERAL SPECIFICATION: FF-H-121a, Type 3520C. Size III Dor-O-Matic LL251



The LL250 Series is specially designed to control x-ray room doors weighing up to 8000 pounds. The door is supported by a heavy duty arm which rests on the door control spindle. The door control spindle is supported by oversized, heavy duty ball bearings. A special top pivot maintains door alignment. No. 019AL side jamb pivots are available if required (Federal Type 3525B). Furnished in standard finishes.

LL 250 SERIES • OFFSET PIVOTED, HANDED for:
lead lined, extra heavy or unusually wide doors.
Shipping wt. 38 lbs.
Cement case size 12¼" x 6 1/16" x 3¾"

BACK STOP POSITION	HOLD OPEN POSITION	MODEL NUMBER
105°	105°	LL250
105°	None	LL251
90°	90°	LL252
90°	None	LL253

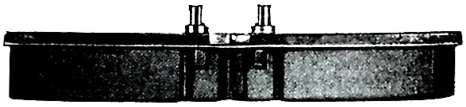
ORDERING INFORMATION

1. Specify Model number and hand.
2. Specify side jamb pivot 019AL if required.
3. Advise door and jamb material: machine or wood screws.
4. Advise door thickness and thickness of lead.
5. Specify if threshold is required.
   (See page 6 and 7 for threshold information).
6. Specify finish.

TWIN CEMENT CASES • used with Back to Back Doors

for offset pivoted 200 and 210 series door controls

Dor-O-Matic Twin Cement Cases are designed for use with Offset Pivoted 200 and 210 Series Door Controls. When used with the 200 Series for banks of offset pivoted doors with mullions, a minimum mullion dimension of 1⅞" may be specified. Mullions can be completely eliminated if necessary with the Door Controls set back to back with spindles on 3½" minimum centers.



When used with the 210 Series, Center Pivoted Doors Controls, mullions can be eliminated in banks of doors and a greater door opening width can be obtained.

Necessary clearances for push and pull bars or other hardware should always be considered. The 202 and 212 Model Door Control with 90° hold open and back stop or the 203 and 213 Models with 90° back stop and no hold open are ideally suited for Twin Cement Case installations.

Door Control Series No.	Cement Case Size	Mullion Width Min. Dimension (If desired)	Spindle Centers Min. Dimensions
200	23⅛" x 5¼" x 3½"	1⅞"	3½"
210	23⅛" x 5¼" x 3½"	None	3½"

REQUEST TWIN CEMENT CASE TEMPLATES FOR DETAILING

TOP PIVOTS

for doors hung off center from jamb

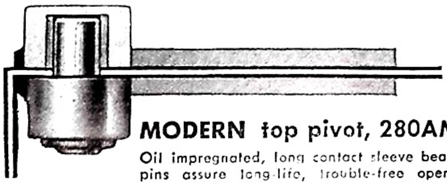
FEDERAL SPECIFICATIONS FF-H-121C, TYPE 3520A
Dor-O-Matic 280AM, TYPE 3520B-Dor-O-Matic 280AA

forged in aluminum, brass and bronze for maximum strength

Since Dor-O-Matic Door Controls are designed to carry the entire weight of the door, the main function of top and side jamb pivots is to maintain proper alignment of the door. If design and construction conditions permit, the top pivot should be used on every installation. When conditions prohibit the use of top pivots, installation of a side jamb pivot should be made as close to the top of the door as possible.

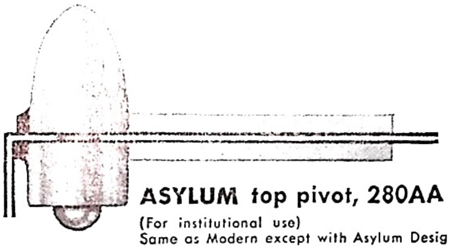
The use of a side jamb pivot as an intermediate pivot or support is recommended on doors over 7′ high and for extra heavy or unusually wide doors. Exposed parts of pivots are finished to match the finish of exposed parts of the door controls.

Template Details and Installation Instructions are available upon request.



MODERN top pivot, 280AM

Oil impregnated, long contact sleeve bearings and hardened steel pivot pins assure long-life, trouble-free operation and perfect alignment under severe service conditions. The Modern Top Pivot is furnished as a standard with 200 and 250 Series Door Controls in aluminum, brass or bronze. Asylum type will be furnished at no additional cost, if desired.



ASYLUM top pivot, 280AA

(For institutional use)
Same as Modern except with Asylum Design.

SIDE JAMB PIVOTS

MODERN

FEDERAL SPECIFICATIONS: FF-H-121, TYPE 3525,
Dor-O-Matic 019AM and 3525A, Dor-O-Matic 019AA

side jamb pivot, 019AM

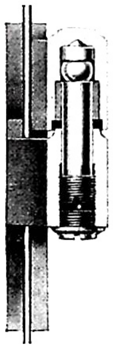
Oil-impregnated, sleeve bearing. Designed to carry portion of door weight, if necessary.

ASYLUM

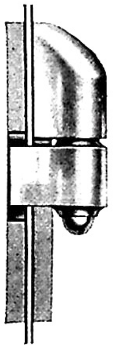
side jamb pivot, 019AM

FEDERAL TYPE 3525A

Oil-impregnated, sleeve bearing. Designed to carry portion of door weight, if necessary.



MODERN



ASYLUM

SUGGESTED DOOR CONTROL SPECIFICATIONS

Note to Specification Writer

All Dor-O-Matic Door Controls are available with hold-open or without hold-open and with positive back stop on all models except Model Number 204 which is designed for use with lightweight exterior and vestibule doors and interior doors which must swing back against wall. This unit has 175° hold open only.

Floor-type door controls shall be as manufactured by the Dor-O-Matic Division of Republic Industries, Inc. They shall have compression type springs, with positive back stop and built-in hold open device at . . ° (select desired degree of back stop and hold open from catalog) in accordance with door schedule and/or plans. Applied hold open devices will not be acceptable. Applied door stops or bumpers will not be acceptable.

Integral leveling screws shall be provided to level the door control in the cement case.

Door controls shall have a positive, adjustable two speed closing action.

Door controls shall be installed in strict accordance with the manufacturer's recommendations.

All workmanship shall be subject to final inspection before acceptance by the architect.

GUARANTEE

Dor-O-Matic concealed in the floor door controls are guaranteed against defects in material or workmanship for two years.

THRESHOLDS

custom made • in extruded aluminum and bronze

FEDERAL SPECIFICATIONS: FF-H-121A Types 3560A, 3560C, 3560CS, 3560D and 3560DS.

For perfect on-the-job fit of thresholds without misalignment and unsightly gaps, the use of Dor-O-Matic Custom Made Thesholds is recommended with all Dor-O-Matic Door Controls. Available in both extruded aluminum and bronze, the attractive serrated design of these thresholds will enhance the appearance of any doorway. Dor-O-Matic Thresholds are custom made to fit the requirements of each door and jamb condition. They are not mass produced and, as a result, poor fits and misalignment problems are completely eliminated. Cutouts for door control spindles are held to close tolerances so unsightly, dirt collecting gaps between spindle and back edge of thresholds are eliminated. These thresholds are designed to permit the removal of the section over the door control so door control adjustments, if required, can be made conveniently and quickly.

All Dor-O-Matic Thresholds are sturdily built and have heavy cross sections to withstand even the severest traffic conditions. Specify Dor-O-Matic Thresholds to complement entrance design and appearance and insure outstanding performance and durability.

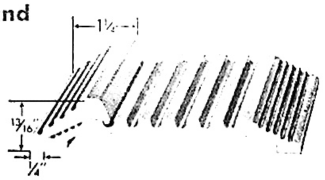
When the exact door opening measurements are furnished we can supply thresholds for perfect on-the-job installation and thus eliminate the costly problem of fitting at the job site.

Dor-O-Matic Engineers will be pleased to review your threshold requirements and can offer assistance when special conditions create problems.

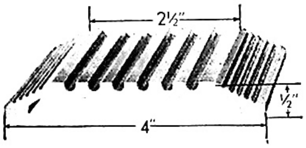
ORDERING INFORMATION

1. Specify type of threshold.
2. Door Control Model Number with which threshold is to be used.
3. Specify if for single, pairs or banks of doors with or without mullions.
4. Specify material.
5. Specify hand of door, if single acting.
6. Specify door thickness if for single acting offset from jamb.
7. Advise width of door opening—jamb to jamb (not door stop or door width).
8. State A and B dimensions if applicable. See details on Page 7.
9. Furnish complete details of any special jamb condition.

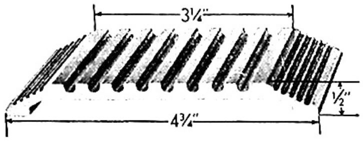
TYPE 2 STOP STRIP for type 30 and 50 Thresholds



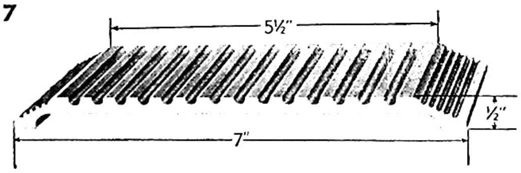
TYPE 4



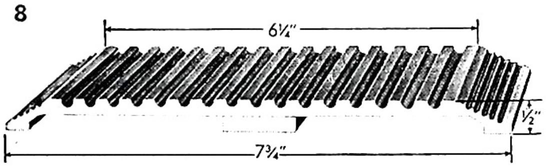
TYPE 5

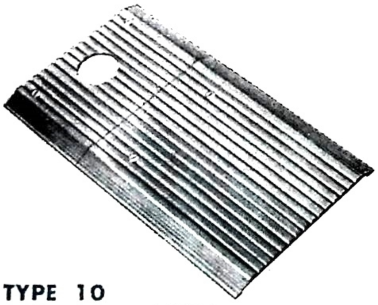


TYPE 7

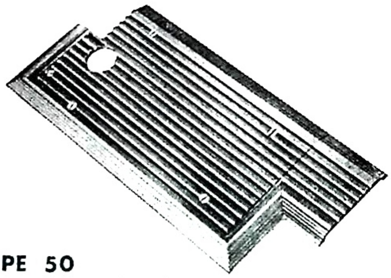


TYPE 8

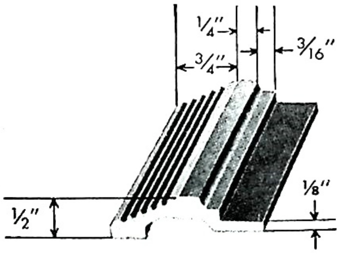




TYPE 10
Federal Type 3560A

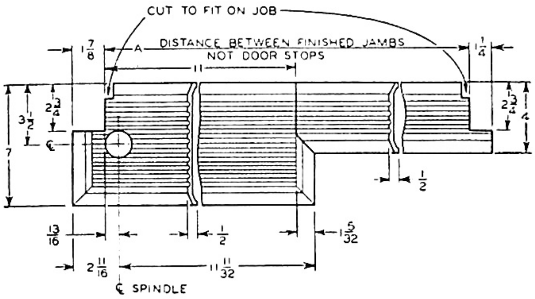


TYPE 50
Federal Type 3560C



TYPE 3 MITRE STRIP for Type 30 and 50 Threshold Ends

THRESHOLD DETAILS for single door applications
Details are typical for pairs or banks of doors

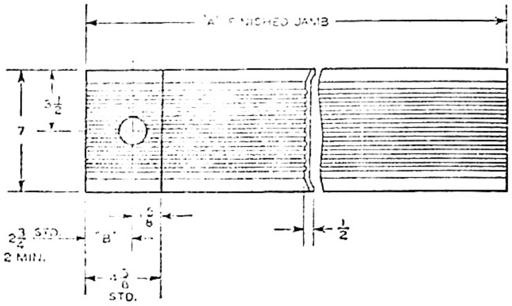


200 SERIES TYPE 50 x 420

For use with doors 2″ thick and under. Door hung off center of jamb. Specify type 50 x 520, 7 ¾″ wide, for offset doors over 2″ and not more than 3″ thick.
Federal Type 3560C

250 SERIES TYPE 50 x 425

For use with doors 2″ thick and under. Door hung off center of jamb. Specify Type 50 x 525, 7 ¾″ wide, for offset doors over 2″ and not more than 3″ thick.
Federal Type 3560C

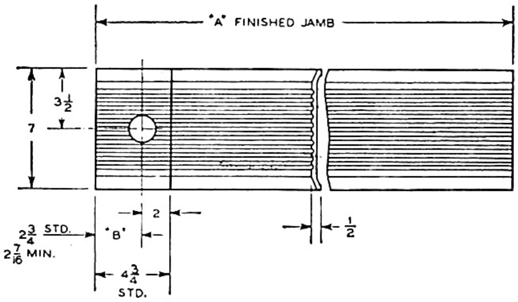


210 SERIES TYPE 10 x 721

Door hung at center of jamb.
Federal Type 3560A

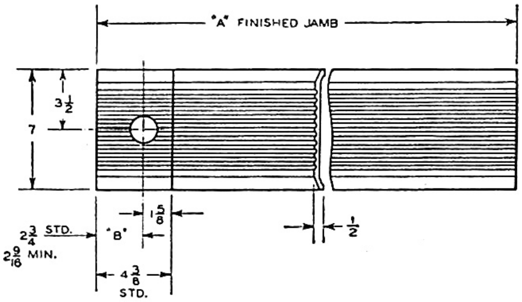
260 SERIES TYPE 10 x 726

Door hung at center of jamb.
Federal Type 3560A



300 SERIES TYPE 10 x 730

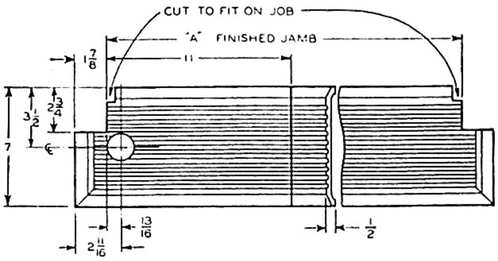
Door hung at center of jamb.
Federal Type 3560A



400 SERIES TYPE 10 x 740

Door hung at center of jamb.
Federal Type 3560A

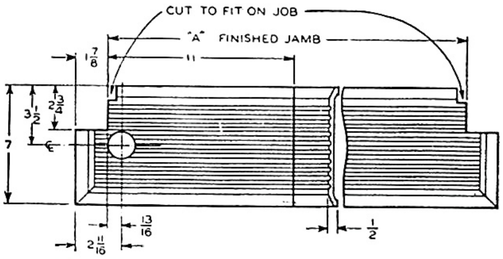
CONTINUOUS WIDTH THRESHOLDS • for offset door controls



200 SERIES

Type 30 x 720, 7″ wide, for doors 2″ thick and under. Type 30 x 820, 7 ¾″ wide, for doors over 2″ and not more than 3″ thick.

Federal Type 3560D



250 SERIES

Type 30 x 725, 7″ wide, for doors 2″ thick and under. Type 30 x 825, 7 ¾″ wide, for doors over 2″ and not more than 3″ thick.

Federal Type 3560D

DOR-O-MATIC

concealed in the floor DOOR CONTROLS

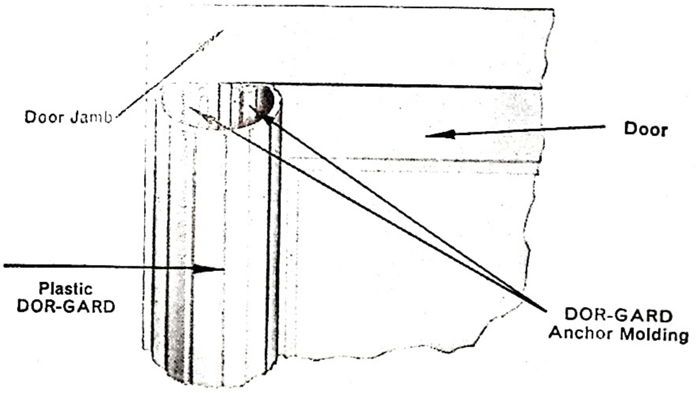
. . . for all swing-type door control requirements

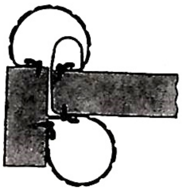
PREVENT INJURIES WITH . . .

DOR-O-MATIC DOR-GARDS®

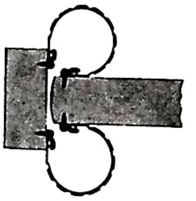
ON ALL TYPES OF DOORS

Easily applied on any pivoted or hinged doors, automatically or manually operated. Prevent injuries, lawsuits, costly claims with DOR-GARDS protecting the full length of all door jambs the public can reach.





DOR-GARD applied on both sides of butt hinged or offset pivoted doors.



DOR-GARD applied on both sides of center pivoted doors.

Long Lasting • Won't Crack

Extremely flexible extruded vinyl with multiple flex-points.

Easy to Install

Fastened to door and frame with two readily-applied aluminum moldings.

Nothing Shows but the DOR-GARD

Molding anchors do not show.

DOR-O-MATIC
DIVISION OF
Republic Industries, Inc.
7350 WEST WILSON AVENUE, CHICAGO 31, ILLINOIS
Phone: UNderhill 7-7400

[illegible] of Canada, Ltd.
[illegible]

information and templates for detailing

This catalog is designed to permit the architect and contractor to select the Dor-O-Matic Door control that meets his requirements and those of his clients.

Complete drawings and template information may be obtained upon request for the final detailing of Dor-O-Matic Door Controls.

Factory trained representatives will be pleased to review with you door control problems presented by unusual traffic, construction or wind conditions.

See A.I.A. File No. 27-C for information on Dor-O-Matic Invisible Dor-Man Automatic Door Operators

Form No. SM-58—Printed in U.S.A.

Digitized by:

INTERNATIONAL

ASSOCIATION
FOR
PRESERVATION
TECHNOLOGY,
INTERNATIONAL
www.apti.org

BUILDING
TECHNOLOGY
HERITAGE
LIBRARY

https://archive.org/details/buildingtechnologyheritagelibrary

From the collection of:

Carol J. Dyson, AIA